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NEW MAPS.

AFRICA.

CONGO FREE STATE.—Région Minière du Katanga. Scale, 31 statute miles to an inch. *Le Mouve. Geog.*, No. 47, 1905, Brussels.

A black-and-white sketch map of interest, because it gives the latest information as to the distribution of gold, copper, and other metals in this promising mining region; also the route surveyed by the Katanga Railroad Commission.

AMERICA.

U. S. GEOLOGICAL SURVEY MAPS.

The following five maps accompany Water-Supply and Irrigation Paper No. 137 entitled "Development of Underground Waters in the Eastern Coastal Plain Region of Southern California," by Walter C. Mendenhall:

Plate I.—Map showing the Artesian Areas and Hydrographic Contours in the Valley of Southern California. Scale, 1:250,000, or 3.95 statute miles to an inch. Washington, 1905.

Plate II.—Map showing Irrigated Lands, Canals, and Pumping Plants in the Anaheim Quadrangle. Scale, 1:62,500, or 0.9 statute mile to an inch.

Plate III.—Map showing Irrigated Lands, Canals, Drainage Districts, and Pumping Plants in the Santa Ana Quadrangle. Scale, 1:62,500.

Plate VI.—Map showing Wells, Artesian Areas, and Water-Levels in the Anaheim Quadrangle. Scale, 1:62,500.

Plate VII.—Map showing Wells, Artesian Areas, and Water-Levels in the Santa Ana Quadrangle. Scale, 1:62,500.

The data were compiled under Mr. Mendenhall's direction. Irrigation engineering and water development are further advanced in California than in any other part of the Union, and the scientific study of water conservation and distribution has been carried out in no other part of the State so fully as in the valley region near Los Angeles. These maps relate to the low lands to the southeast of that city. Plates II and III show the areas irrigated in the spring of 1904 and the pumping plants and distributing systems by which the water is secured and conducted over the land; plates VI and VII show the areas of artesian water-bearing land at the beginning of 1904 and give other information concerning the artesian belt; plate I shows the relation of this area of irrigation to other areas in the Valley of Southern California.

Similar maps accompany Water-Supply and Irrigation Papers Nos. 138 and 139 on "The Central and Western Coastal Plain Region of Southern California."

Land Classification Map of Part of the Southern Appalachian Region. Scale, 1:375,000, or 5.9 statute miles to an inch. Washington, D. C., 1904.

Six tints show the cleared lands and areas yielding different quantities of lumber per acre. The contour interval is 200 feet. Illustrating Professional Paper No. 37, "The Southern Appalachian Forests."

Also accompanying Professional Paper No. 37 is a relief map of the Southern Appalachian Region showing the distribution of the mountains by light and shade effects. Scale, 18 statute miles to an inch.

U. S. HYDROGRAPHIC OFFICE CHARTS.

PILOT CHART OF THE NORTH PACIFIC OCEAN, JAN., 1906.—Includes charts published, cancelled, and corrected, from Nov. 1 to Nov. 30, 1905, the average meteorological conditions in January, lines of equal magnetic variation, and (on the reverse) the Storm Signal Code of the Imperial Maritime Customs (Shanghai, China), to come into force on Jan. 1, 1906.

PILOT CHART OF THE NORTH ATLANTIC OCEAN, DEC., 1905.—Shows the average meteorological conditions over the North Atlantic during December, the average annual set of ocean currents, lines of equal magnetic variation for every degree for the current year, derelicts, icebergs and field ice, and charts published, cancelled, and corrected.

UNITED STATES.—Geological Map of Miller County, Missouri. Scale, 1:93,750, or 1.47 statute mile to an inch. By Sidney H. Ball and A. F. Smith. Missouri Bureau of Geology and Mines, Jefferson City, Mo., 1903.

Accompanies the report on "The Geology of Miller County," and gives the geological data in colours. This and several other counties have been surveyed geologically since 1901, and the plan is to survey and report in detail upon all the counties in the State as rapidly as possible.

UNITED STATES.—Geological Map of Moniteau County, Missouri. Scale, nearly 1½ statute mile to an inch. By F. B. Van Horn. Missouri Bureau of Geology and Mines, Jefferson City, Mo., 1905.

UNITED STATES.—Geological Map of Missouri, showing the location of the Principal Stone Quarries. Scale, 18 statute miles to an inch. By H. A. Buehler. Missouri Bureau of Geology and Mines, Jefferson City, Mo., 1904.

Accompanies a *Report* on "The Quarrying Industry of Missouri." The building stones are one of the State's most valuable resources, adding millions each year to her wealth. In this map the geology is reproduced from an earlier map, on which are imposed symbols showing limekilns, limestone, sandstone, granite and other quarries. The *Report* contains other maps showing in greater detail the distribution of quarries in various districts.

CANADA.—Sketch Map showing exploration of Equan and Trout Rivers and West Coast of James Bay. Scale, 50 statute miles to an inch. By D. B. Dowling. Geological Survey of Canada, Ottawa, 1901.

Illustrates explorations to the west of James Bay described in the *Summary Report for 1901* of the Geological Survey Department.

CANADA.—Sketch Map of Sixty Mile River Gold Fields. Scale, 6 statute miles to an inch. By R. G. McConnell. Geological Survey of Canada, Ottawa, 1901.

Accompanies the report by Mr. McConnell on these gold fields, situated to the west of the Yukon. The points where gold has been discovered on the creeks are indicated.

CANADA.—Map of the Dominion of Canada. Showing Progress of Field Operations by the Geological Survey, 1843-1903, 225 statute miles to an inch. Geological Survey of Canada, Ottawa, 1903.

Illustrates the *Summary Report* of the Geological Survey for 1902. Two tints of red show areas that have been geologically surveyed and partly mapped and those which have been less completely investigated. The areal surveys extend from the international boundary for a considerable distance to the north, the limit being in about 54° N. Lat., in the prairie region of Alberta. The

greater part of the Dominion has as yet been surveyed only along the rivers and shores of the lakes, which have been topographically and geologically explored.

CANADA.—Geological Map of the Coal Basins of Quilchena Creek, Cold Water River, Coal Gully, and Ten Mile Creek, Nicola Valley, Yale Dist., B. C. Scale, 1 statute mile to an inch. Geological Survey of Canada, Ottawa, 1905.

These coal areas lie to the south of the Canadian Pacific Railroad, and some of them have been mined for several years.

CANADA.—Map of Atlin Mining District. Compiled from the latest surveys. Scale, 6 statute miles to an inch. By Brownlee and Lowry. British Columbia Department of Mines, Victoria, 1905.

Shows mineral claims, roads, trails, and many mountain heights in feet, together with survey of the proposed branch of the White Pass R.R. to Windy Arm, where mineral prospects are attracting attention.

CHILE.—Canales en el Seno Ultima Esperanza. Scale, 1:30,000, or 0.47 statute mile to an inch. Hydrographic Office, Valparaiso, 1905.

Two charts on one sheet of the White and Kirke Channels in the western part of the Strait of Magellan.

ASIA.

CENTRAL ASIA.—Karte des Centralen Tian-Schan. Nach Dr. G. Merzbacher und Dr. Max Friederichsen. Scale, 1:2,000,000, or 31.56 statute miles to an inch. *Deutsche Rundschau für Geog. und Stat.*, Vol. XXVIII, No. 1, Vienna, 1905.

Routes and other details of the work of Drs. Merzbacher and Friederichsen are from their original maps, which were noticed in the BULLETIN for last January (p. 60) and March (p. 176).

EUROPE.

ENGLAND.—Inner-London. Scale, 1:80,000, or 1.2 statute miles to an inch. *Deutsche Rundschau für Geog. und Stat.*, No. XXVIII, No. 2, Vienna, 1905.

The scale is large enough to show all the more important features of the inner part of Greater London. Illustrates an Article on "London in der Gegenwart," by Alexander Olinda.

EUROPEAN TURKEY.—Hand-Karte der Europäischen Türkei, Bulgarien und Ost-Rumelien. Scale, 1:1,200,000, or 18.93 statute miles to an inch. By A. Klement. Ed. Hölzel, Vienna, 1904. (Price, kr. 3.)

Place-names are very numerous and clearly printed. The spelling is South Slavonic.

L'ANNEE CARTOGRAPHIQUE.—Supplément Annuel à Toutes les Publications de Géographie et de Cartographie. Par F. Schrader. Fifteenth year (for 1904). Hachette & Co., Paris, 1905. (Price, frs. 3.)

Three sheets devoted respectively to Africa, America, and Europe. The Africa sheet shows the results of the reconnaissance surveys of Laperrine, Voinot, Théveniaut and others in the Sahara between Insala and Timbuktu; the route of the projected railroad between Thies and Kayes, which will supplement the steamer route on the Senegal, navigable only a few months in the year. The new frontiers between British and German possessions in Guinea and between French and British possessions in Gambia and in the region between Lake Chad

and the Niger; the new political partitions in French West Africa and the mapping of Lake Chad in 1904.

The American sheet shows the results of explorations in upper Argentina and Bolivia in 1903-4; and the Appalachian Mountains from the topographic sheets of the U. S. Geological Survey.

The Asia sheet gives the itineraries of V. Obrutcheff during his expedition in Central Asia, Northern China, and Nan' Chan in 1892-94; the progress of the topographic and geodetic surveys in Indo-China; the itineraries of Lieut. Oum in Indo-China and the route surveys of Messrs. Rawling and A. J. G. Hargreaves in western Tibet, reduced from the map in the *Geographical Journal* for last April. The back of each sheet is filled with text explanatory of the maps.

ATLASES.

KLEINER MISSIONS-ATLAS ZUR DARSTELLUNG DES EVANGELISCHEN MISSIONS-WERKES NACH SEINEM GEGENWAERTIGEN BESTANDE. VON R. GRUNDEMANN. Third edition. Verlag der Vereinsbuchhandlung. Calw & Stuttgart, 1905. (Price, M. 3.)

This is an admirable, cheap missions-atlas of the entire world. Most of the maps are on a scale of 1:10,000,000, and the map work is excellent in all respects. It is easy to learn from the plates the comparative development of evangelical missions in the various fields, and the information is brought down to date. It is impossible, however, to make a scientific study of mission work without taking into account the enormous participation in it of the Roman Catholic Church. For this reason it is to be regretted that these fine map-plates, ten in number, give so little information about Catholic missions.

MEYERS HAND-ATLAS.—Dritte neuarbeitete und vermehrte Auflage, mit 115 Kartenblättern und 5 Textbeilagen, 40 Lieferungen, including index to place-names. Parts 19-28. Verlag des Bibliographischen Instituts, Leipzig and Vienna, 1905. (Price, 30 pf. a part, or M. 15 for the Atlas bound, including index to place-names; M. 10 not including index.)

These parts complete the maps in this excellent small atlas. The index is yet to come. The maps are cheap in price, but are probably not surpassed in quality by any other maps of similarly small scale. The first 18 parts were noticed in the BULLETIN for October, p. 620.

NORWAY.—Topografisk Kart over kongeriget Norge. Scale, 1:100,000, or 1.5 statute mile to an inch. By the Norwegian Geographical Institute, Christiania. (Price, kr. 0.60 a sheet.) Sheets: Sarpsborg, 10 C.; Ofoten, M. 9; Hugstfjeld, W. 8; Njullas, V. 9; Vestertana, Y. 3.

These are the latest sheets of the superior topographic map of Norway, the chief features of which were briefly described in the BULLETIN of Oct. (p. 619). Col. Per Nissen, Director of the Norwegian Geographical Institute, had an exhaustive article on the mapping of Norway in No. 3 of *Petermanns Mitteilungen*, 1905, which is all the more interesting because of the high quality of map work which that country has attained.

OCEANS.

ATLANTIC.—Campagne Scientifique de la Princesse Alice. *Bull.* No. 46 du Musée Océanographique de Monaco. Monaco, 1905.

Shows the itinerary of the steamer *Princesse Alice* in 1905. Her route ex-

tended from the Strait of Gibraltar nearly to 45° W. Long. All soundings are marked in metres. The soundings in the neighbourhood of the Azores complete the bathymetrical map published in 1903.

VARIOUS.

WORLD.—Kolonial und Weltverkehrs-Karte. Scale on the Equator, 1:25,000,000, or 394.5 statute miles to an inch. By Prof. Dr. Th. Cicalak and J. G. Rothaug. G. Freytag & Berndt, Vienna, 1905. (Price, M. 21.)

A large school wall map of the world on the Mercator projection, in which each country and its colonies have a distinct colour. The extent of the colonial possessions of each country is thus made prominent. Other data relate chiefly to the world commercial routes and communications, including railroads, steamship routes, and cables. As ocean currents and drift ice influence communications, the direction of the currents and the limits of drift ice are shown. All interior navigation is depicted, and the latest information about colonial boundaries is given. An excellent map for the middle grades in the schools.

ACCESSIONS TO THE LIBRARY.

OCTOBER-DECEMBER, 1905.

AFRICA.

BLYDEN, EDWARD WILMOT.—West Africa before Europe, and other Addresses, delivered in England 1901-1903. London, C. M. Phillips. 1905. 16mo.

BRUUN, DANIEL.—The Cave Dwellers of Southern Tunisia. Translated from the Danish by L. A. E. B. (Illustrations.) London, W. Thacker & Co. 1898. 8vo.

COLQUHOUN, ARCHIBALD R.—The Renascence of South Africa. With map. London, Hurst & Blackett. 1900. 16mo.

GAUTIER, E. F.—Madagascar. Essai de Géographie Physique. Cartes et Planches. Paris, A. Challamel. 1902. 8vo.

GIFFEN, J. KELLY.—The Egyptian Sudan. Illustrated. New York, Fleming H. Revell Co. (1905.) 16mo.

HINDE, SIDNEY LANGFORD AND HINDE, HILDEGARDE.—The Last of the Masai. Illustrations. London, Wm. Heinemann. 1901. sq. 8vo.

HUTCHINSON, G. T.—From the Cape to the Zambesi. Illustrations. London, John Murray. 1905. 8vo.

KELLER, C.—Madagascar, Mauritius and the Other East-African Islands. With 3 Maps and Illustrations. London, Swan Sonnenschein & Co. 1901. 8vo.

MADAN, A. C.—An Outline Dictionary intended as an Aid in the Study of the Languages of the Bantu (African) and other uncivilized Races. London, Henry Frowde. 1905. 12mo.

MOORE, J. E. S.—To the Mountains of the Moon Tanganyika Expedition, 1899-1900. Illustrations and Maps. London, Hurst and Blackett. 1901. 8vo.